



EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR, SECOND SEMESTER EXAMINATION IN AGRICULTURE- 2005/2006

March 2013 (External Degree)

ACH 3201 – SOIL PROPERTIES AND SOIL FERTILITY MANAGEMENT

Time Allowed: One hour
Answer all questions.

A student living at Vantharumoolai, cultivated his land with brinjal in a yala season. He adopted all the cultivation practices and applied chemical fertilizer recommended for brinjal. But the yield was very low and the post harvest soil nutrient content was also very low.

In next yala season he cultivated the same land with incorporating compost. He adopted all the cultivation practiced and applied fertilizer recommended in considering the nutrient content of compost. The yield was high and the post harvest soil nutrient content was also high.

- a. Discuss the reason for the above results
- b. Predict the irrigation interval for the two seasons.
- c. Explain the merits and demerits of chemical fertilizers and organic manures.

Third year agricultural students decided to plant chillie in two plots. One week before planting he incorporated compost in plot A and paddy straw in plot B and planted chillie seedlings in both plots. He applied recommended amount of fertilizer to plot A and B.

But In plot B he observed yellowing of leaves in few days.

- a. What may be the reason for the yellowing?
- b. Explain the precaution to be taken to prevent the above problem
- c. Write an account on integrated Nutrient Management.